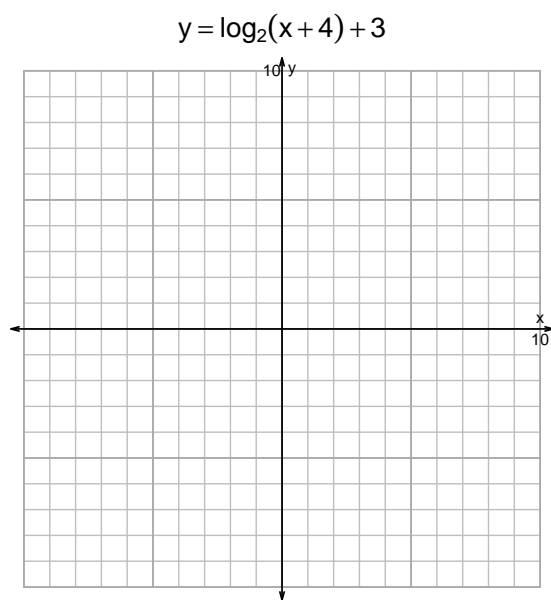
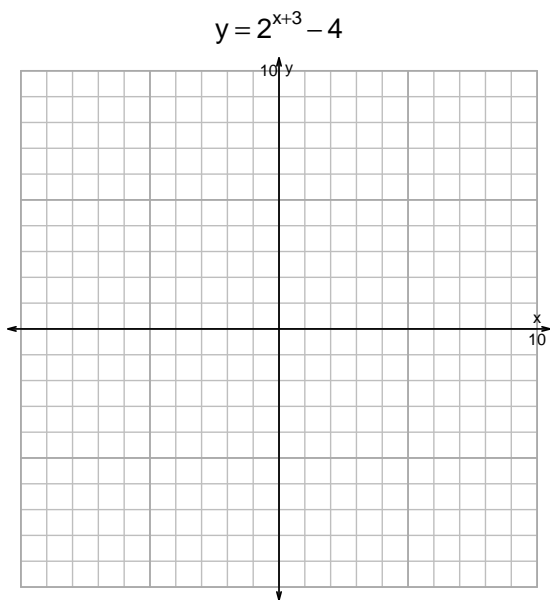


Name: \_\_\_\_\_

Date: \_\_\_\_\_

s18QUIZ: EXP LOG (QUIZ v237)

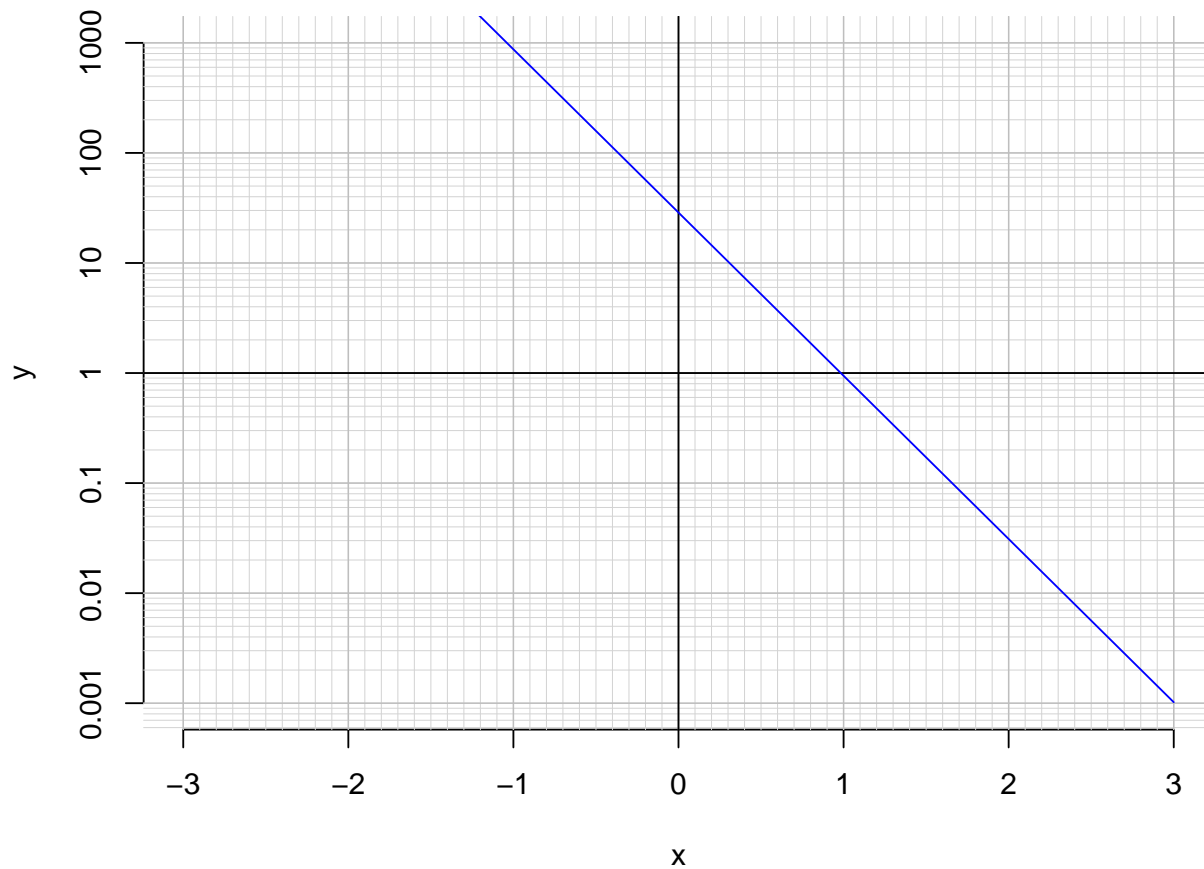
1. Graph  $y = 2^{x+3} - 4$  and  $y = \log_2(x + 4) + 3$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$23 = \left(\frac{3}{5}\right) \cdot 2^{4t/7}$$

3. An exponential function  $f(x) = 28.7 \cdot e^{-3.41x}$  is graphed below on a semi-log plot.



- a. Using the plot above, evaluate  $f(-0.3)$ .

- b. Express  $f^{-1}(x)$ , the inverse of  $f$ .

- c. Using the plot above, evaluate  $f^{-1}(0.004)$ .